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Referring now to the method of operation, the steps of the method are depicted in Fig. 2 as follows:

21 The [, the] mounting of the stone is held in one hand. 22 The housing is held in the other hand. 23 The probe is applied to the surface of the stone to be tested. 24 The apparatus is turned on. 25 After a preset warm up period of about 10 seconds, 26 the thermal conductivity is measured and the results displayed. After a 0.5 second delay, 27 the electrical conductivity is measured and the results are displayed. When both the thermal and electrical conductivity displays are [both] positive, the stone is thereby determined to be a true diamond. Furthermore, if the thermal conductivity test is positive and the electrical conductivity test is negative, it indicates that the stone is moissanite. Such simulated stones as cubic zirconia have much lower thermal conductivity than diamond.